PDR RID Report

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Document	FOS PDR Presentation, Day 2		

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Review FOS
Originator Ref WDB-5FOSPDR
Priority 2

Section AM3 **Page** AM3-33 **Figure Table** Spacecraft Clock

Category Name Requirements **Actionee** HAIS

Sub Category

Subject Clock Error Determination Requirements

Description of Problem or Suggestion:

The accuracy to which the spacecraft clock must be set must be known before the approach described can be approved.

Originator's Recommendation

Determine with FDF and Martin Marietta the required accuracy for setting the clock. Star Catalogs, Star selection criteria, Table generation, bright object predictions, should also be resolved.

GSFC Response by: **GSFC Response Date**

HAIS Response by: D. Herring **HAIS Schedule** 1/13/95

HAIS R. E. P. Lyons **HAIS Response Date** 1/18/95

The 11/94 version of the AM Project's EOS AM Spacecraft Ground System Requirements Data Base contains requirements (4131.1) for the EOS ground system to have the capability to maintain knowledge of the AM-1 spacecraft clock to within 100 microseconds of UTC using the USCCS method. These requirements have been accepted by FOS and will been included in the 1/95 submittal of the FOS Requirements Specification (reference section 8.0 Analysis requirements).

This scenario was presented at PDR to demonstrate the ability of the FOS design to meet these requirements. The actual approach used to maintain the AM-1 spacecraft clock during on-orbit operations will be determined by operational procedures, as defined by the FOT.

The required accuracy for star catalogs, star selection criteria, table generation, and bright object predictions will be defined by the AM Project and documented in the Detailed Mission Requirements (DMR) for the AM-1 mission. FDF will document the agreed-upon data formats for these products in the ICD Between FDF and the EOC.

Status **Closed** **Date Closed** **2/1/95** **Sponsor** **Johns**

****** **Attachment if any** ******